

(N)CLPT Fuses



CLPT and NCLPT Type Fuses

Product Description

Eaton CLPT (indicating) and NCLPT (non-indicating) fuses are applied wherever it is necessary to limit the short-circuit currents on control transformer and potential transformer circuits in high capacity systems in industrial installations and commercial buildings.

Current ratings from 1/2E to 10E are available at 2.4 kV to 34.5 kV.

Features

CLPT and NCLPT type current limiting fuses offer a number of desirable advantages. Consider the following during the selection process:

- **Quiet Safe Operation:** These fuses are designed for silent operation and elimination of flame discharges when the fuse operates
- **Identification of Blown Fuse:** These fuses are available in indicating and non-indicating versions. Indicators protrude from indicating type fuses providing a visual indication of a blown fuse

- **Space Economy:** Because the fuse is designed to eliminate flame and gas discharges, no exhaust control devices, flame boxes, vents or reinforcing are required
- **Complete Protection Provided:** Current limiting fuses provide positive interruption even on low fault currents. The fuse limits the magnitude of electromechanical stresses in the apparatus to be protected
- **Mountings:** Disconnect and non-disconnect mountings are available for most types of fuses from 5 kV through 15 kV. Live parts are available for 23 kV and 34.5 kV fuses
- **Dimensions:** Various fuse sizes are available for a wide range of applications

Construction

CLPT type current limiting fuses are basically constructed in a similar fashion to other Eaton current limiting fuses.

Contents

Description

CLPT and NCLPT Type Fuses

Catalog Number Selection	V14-T3-43
Product Selection	V14-T3-43
Mounting Details	V14-T3-48

Page

Ratings and Selection

When a decision has been made to use current limiting fuses, the minimum amount of information required to make the proper selection is:

- Voltage rating
- Current rating
- Interrupting rating
- Mounting method
 - Non-disconnect mounting
 - Disconnect mounting
 - Live parts only
 - No required mounting

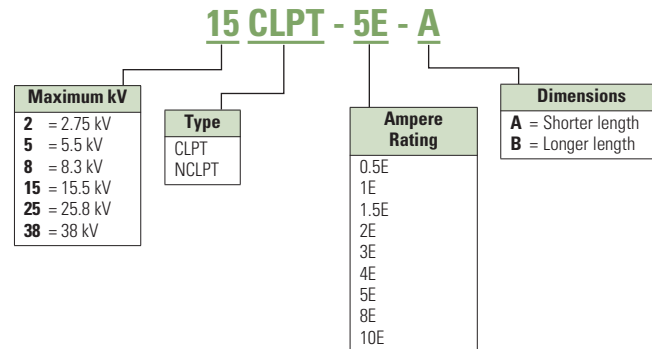
Refer to tables on **Pages V14-T3-43 to V14-T3-49** for assistance in selecting the correct fuse catalog number.

These types of fuses are used in conjunction with potential and control power transformers. There are specific rules governing the selection of the required fuse continuous rating. The current limiting fuse application notes earlier in this publication offer additional information about this type of application.

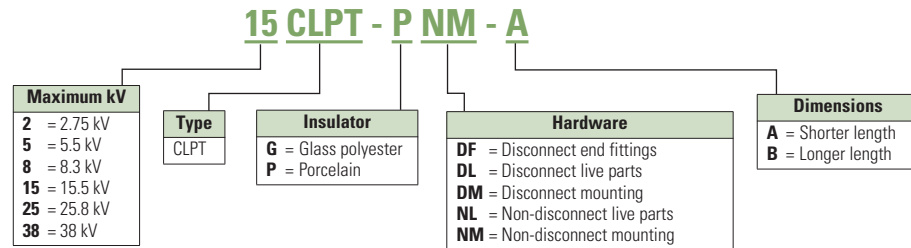
When selecting the appropriate fuse for a new installation, keep in mind that one fuse unit and one compatible mounting may be required for each phase.

Catalog Number Selection

CLPT Fuse Units



CLPT Mounting



Product Selection

CLPT Type

Indicating



CLPT Type Current Limiting Fuses 2.475 kV Maximum (2.4 kV Nominal)

Current Rating (Amperes)	Interrupting Rating rms (kA Sym.)	Diameter	Clip Center	Length	Approximate Shipping Weight Lbs (kg)	Performance Curves			Catalog Number
						Minimum Melting Time	Total Clearing Time	Peak Let-Through Current	
0.25E	63	0.81 (20.6)	—	4.50 (114.3)	0.25 (0.11)	TC56357202	TC59883702	TC63933702	2NCLPT-.25E
0.5E	63	0.81 (20.6)	—	4.50 (114.3)	0.25 (0.11)	TC56357202	TC59883702	TC63933702	2NCLPT-.5E
1E	40	0.81 (20.6)	—	4.50 (114.3)	0.25 (0.11)	TC56357202	TC59883702	TC63933702	2NCLPT-1E
2E	40	0.81 (20.6)	—	4.50 (114.3)	0.25 (0.11)	TC56357202	TC59883702	TC63933702	2NCLPT-2E
5E	25	0.81 (20.6)	—	4.50 (114.3)	0.25 (0.11)	TC56357202	TC59883702	TC63933702	2NCLPT-5E

CLPT Type Current Limiting Fuses 5.5 kV Maximum (4.8 kV Nominal)

	Current Rating (Amperes)	Interrupting Rating rms (kA Sym.)	Diameter	Clip Center	Length	Approximate Shipping Weight Lbs (kg)	Performance Curves		Peak Let-Through Current	Catalog Number
							Minimum Melting Time	Total Clearing Time		
	Non-Indicating									
	0.5E	63	0.81 (20.6)	—	5.63 (143.0)	0.25 (0.11)	TC66702402	TC66702502	TC66704101	5NCLPT-.5E
	1E	63	0.81 (20.6)	—	5.63 (143.0)	0.25 (0.11)	TC66702402	TC66702502	TC66704101	5NCLPT-1E
	2E	63	0.81 (20.6)	—	5.63 (143.0)	0.25 (0.11)	TC66702402	TC66702502	TC66704101	5NCLPT-2E
	3E	63	0.81 (20.6)	—	5.63 (143.0)	0.25 (0.11)	TC66702402	TC66702502	TC66704101	5NCLPT-3E
	4E	63	0.81 (20.6)	—	5.63 (143.0)	0.25 (0.11)	TC66702402	TC66702502	TC66704101	5NCLPT-4E
	5E	63	0.81 (20.6)	—	5.63 (143.0)	0.25 (0.11)	TC66702402	TC66702502	TC66704101	5NCLPT-5E
	0.5E	50	1.00 (25.4)	—	5.63 (143.0)	0.25 (0.11)	TC66702402	TC66702502	TC66704101	317B487H02
	1E	50	1.00 (25.4)	—	5.63 (143.0)	0.25 (0.11)	TC66702402	TC66702502	TC66704101	317B487H06
	2E	50	1.00 (25.4)	—	5.63 (143.0)	0.25 (0.11)	TC66702402	TC66702502	TC66704101	317B487H03
	3E	50	1.00 (25.4)	—	5.63 (143.0)	0.25 (0.11)	TC66702402	TC66702502	TC66704101	317B487H04
	5E	50	1.00 (25.4)	—	5.63 (143.0)	0.25 (0.11)	TC66702402	TC66702502	TC66704101	317B487H05
	0.5E	63	1.60 (40.6)	8.10 (205.7)	9.50 (241.3)	1.2 (0.54)	TC70548302	TC70548402	TC63934002	5NCLPT-.5E-A
	1E	63	1.60 (40.6)	8.10 (205.7)	9.50 (241.3)	1.2 (0.54)	TC70548302	TC70548402	TC63934002	5NCLPT-1E-A
	2E	63	1.60 (40.6)	8.10 (205.7)	9.50 (241.3)	1.2 (0.54)	TC70548302	TC70548402	TC63934002	5NCLPT-2E-A
	3E	63	1.60 (40.6)	8.10 (205.7)	9.50 (241.3)	1.2 (0.54)	TC70548302	TC70548402	TC63934002	5NCLPT-3E-A
	5E	63	1.60 (40.6)	8.10 (205.7)	9.50 (241.3)	1.2 (0.54)	TC70548302	TC70548402	TC63934002	5NCLPT-5E-A
	10E	63	1.60 (40.6)	8.10 (205.7)	9.50 (241.3)	1.2 (0.54)	TC70548302	TC70548402	TC63934002	5NCLPT-10E-A
		Indicating								
0.5E		80	1.60 (40.6)	8.10 (205.7)	9.50 (241.3)	1.2 (0.54)	TC56353206	TC56353306	TC63934001	5CLPT-.5E
1E		80	1.60 (40.6)	8.10 (205.7)	9.50 (241.3)	1.2 (0.54)	TC56353206	TC56353306	TC63934001	5CLPT-1E
1.5E		80	1.60 (40.6)	8.10 (205.7)	9.50 (241.3)	1.2 (0.54)	TC56353206	TC56353306	TC63934001	5CLPT-1.5E
3E		80	1.60 (40.6)	8.10 (205.7)	9.50 (241.3)	1.2 (0.54)	TC56353206	TC56353306	TC63934001	5CLPT-3E
5E		80	1.60 (40.6)	8.10 (205.7)	9.50 (241.3)	1.2 (0.54)	TC56353206	TC56353306	TC63934001	5CLPT-5E
10E		80	1.60 (40.6)	8.10 (205.7)	9.50 (241.3)	1.2 (0.54)	TC56353206	TC56353306	TC63934001	5CLPT-10E

CLPT Type Mountings and Hardware 5.5 kV Maximum (4.8 kV Nominal) ①

Ampere Rating	Fuse Mounting Type ②	Voltage BIL (kV)	Mounting (Including Live Parts, End Fittings) ③		Live Parts (Including End Fittings) ③	End Fittings (Disconnect Only)
			Porcelain Insulator Catalog Number	Glass-Polyester Insulator Catalog Number		
0.5–2	Non-disconnect	60	5CLPT-PNM-A	5CLPT-GNM-A	CLPT-NL	—
	Disconnect	60	5CLPT-PDM-A	5CLPT-GDM-A	CLPT-DL	CLPT-DF
3–10	Non-disconnect	60	5CLPT-PNM-B	5CLPT-GNM-B	CLPT-NL	—
	Disconnect	60	5CLPT-PDM-B	5CLPT-GDM-B	CLPT-DL	CLPT-DF

Notes

- ① Refers only to 5CLPT and 5NCLPT-A fuses only.
 ② See **Page V14-T3-38** for diagram of typical mounting.
 ③ End fittings supplied only when required.